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Chemical:

l

LIGNOSULFONIC ACID

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Feature

a chemical name, CAS Number, or molecular formula. Use * for partial names (i.e. chloro*)

58318-45-9, 8061-51-6, 8062-15-5, LIGNOSULFONIC ACID, LST 7, Lignin sulfonate, Ligninsulfonate, Ligninsulfonic acid, Lignosulfate, Lignosulfonate, Lignosulfuric acid, Poly (lignosulfonic acid), Protectol W, Sulfite lignin, 8062-15-5, AIDS-000665, AIDS000665, Ameribond 2X, Indulin SN, LS, LST 7, Lignosulfonate, Lignosulfonic acid, Poly(lignosulfonic acid), Protektol W, Sulfite lignin, Sulfolignin, Sulfonated lignin, Sulfonic acids, ligno, Sulfonyllignin, Wafex SR, 8062-15-5, AIDS-001469, AIDS001469, Ameribond 2X, Indulin SN, LST 7, Lignin, sulfite, Ligninsulfonate, Ligninsulfonic acid, Lignosulfate, Lignosulfonate, Lignosulfonic acid, Poly (lignosulfonic acid), Protektol W, Sulfite lignin, Sulfolignin, Sulfonic acids, ligno, Sulfonyllignin, Wafex SR

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CAS Number

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Conducting Polymers

Polyanilines

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Polyanilir	ne	
53,067-0	(Leucoemeraldine base polyaniline; LEB) CAS No. 25233-30-1 C ₆ H ₈ N ₂ FW 108.1 Conducting polymer. Completely reduced form of polyaniline. solid mp.	5 g >330 ℃

Polyaniline (emeraldine base)

(emeraldine base polyaniline) CAS No. 5612-44-2 C₁₂H₁₄N₄ FW 214.3

Conducting Polymer. Undoped form. Solubility

Solubility																	
NMP							,										soluble
DMF																	soluble
THF						 	 		 	 	 		 				soluble
m-cresol					,												soluble
DMSO								,									soluble
DMAC																	soluble

			- 1
55,645-9	Average M _w ~5,000	5 g	
,	mp approx. 277 °C		
	111p	25 nm	
	λ _{max}	23 11111	
47 670 6	4 84 40.000	10 g	
47,670-6	Average M _w ~10,000	•	-
	solid	50 g	1
	mp 169 °C (dec	c.) (lit.)	
			İ
55,637-8	Average M _w ~20,000	5 g	
	λ _{max}	28 nm 25 a	
	7-max		
55,638-6	Average M _w ~50,000	5 q	1
33,030-0	Average INW -30,000		
	mp approx. 353 °C	. (uec.) 25 g	
	λ _{max}	30 nm	
53.050.0	A BA CE 000	10 a	
53,068-9	Average M _w ~65,000	,	
	 Conducting Polymer. Undoped form. 	50 g	
	solid		
	mp		.)
57,637-9	Average M _w ~100,000	5 g	
37,037 3	Conductivity 1 × 10 ⁻⁹ S/cm (pressed		
		pener, 25 g	- [
	ASTM F8)	224	_
	λ _{πιαχ}	324 nr	13
	200,000		-
57,647-6	Average M _w ~300,000	_5 g	- 1
		25 a	- 1

Polyaniline (emeraldine salt)

42 922-0

Average M > 15 000 nowder

42,832-9	Average M _w >15,000, powder 5 g	
	(Infusible), particle size 3-100 µm 25 g	
	Additive in polymer blends and liquid	
	dispersions for electromagnetic shielding, charge	
	dissipation, electrodes, batteries and sensors.	
	Form of polyaniline complexed (doped) with proprietary	
	organic sulfonic acid	
	Inherently conductive polymer.	_
	Stable at 100 °C and at 200 °C for short periods.	0 v e
		٥
	Dispersed particles tend to reaggregrate in molded articles	
	forming conductive pathways. Acidic salt of an	a c.k
	organicacid, incompatible with most bases.	8
	surface area	Ð
	Conductivity	Se
	mp	
	Density	Ü
	the state of the s	office:
57,707-3	coated on nylon powder 10 g	of
	Light colored conductive additive for	£
	thermoplastics and thermosets.	a-Aldrich
	Processible up to 150 °C	þ
	Solubility	<u> ح</u>
	water	'n
	organic solvent insoluble	Ε
	Extent of labeling ~30 wt. % Nylon Polyaniline	Sig
	Conductivity	S
	R: 37 S: 22-36	ď
E2 0E6 E	composite with carbon black 5 g	local
53,056-5	Inherently conducting polymer based 25 g	_
	· · · · · · · · · · · · · · · · · · ·	2
	additive. Loading of polyaniline in carbon	٥ ۲
	black typically 20%. Bulk conductivity 40 S/cm. Stable up	
	to at least 300°C in air.	Æ
	Conductive additive for thermoplastics and thermosets.	(N S A)
	solid	
	contains proprietary organic sulfonic acid	9 6

Polyaniline (emeraldine salt) long chain, grafted to lignin

CAS No. 335349-50-3 C₆H₈N₂ FW 108.1

Inherently conductive polymer. Redox active upto a pH of 9. Stable at 300°C for 30 mins. Insoluble in most solvents. Dispersible over a wide pH range in water and polar, protic organic solvents including isopropanol, DMSO, DMF, and NMP. Shake well before use.

	pant $ ho$	ara-toldene sullonic acid as
56,111-8	approx. 20 wt. % in water Particle size. pH. Conductivity. R: 37/38-41 S: 26-36	approx. 2-3 μm 50 g approx. 1.7
56,113-4	powder Particle size. pH 1.9 (5 Conductivity. R: 37/38-41 S: 22-26-36	2 g 2-3 μm 10 g wt. % in water)



Synthesis: Sigma-Aldrich Fine Chemicals

Conducting Polymers

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Polyanilines

Polyaniline (emeraldine salt) short chain, grafted to lignin

CAS No. 313949-90-5 C₆H₈N₂ FW 108.1

Inherently conductive polymer. Redox active upto a pH of 9. Stable at 300 °C for 30 mins. Insoluble in most solvents. Dispersible over a wide pH range in water and polar, protic organic solvents including isopropanol, DMSO, DMF, and NMP. Shake well before use.

contains ligno-sulfonic acid as dopant

56,109-6	approx. 20 wt. % in water, dispersion 10 g	
	contains ligno-sulfonic acid as dopant 50 g particle size approx. 2-3 µm	
	pH approx. 2.3 (5 wt. % in	water
	Conductivity	
56,112-6	powder 2 g Particle size 2-3 μm 10 g	
	pH 1.95 (5 wt. % in water)	
	Conductivity	2 S/cm
	e was despite when a seguinary	

Poly(anilinesulfonic acid) solution

Poly(aniii	nesultonic acid) solution	
52,328-3	CAS No. 167860-86-8 Average M_n 10,000 by GPC,	50 mL
	polyethylene oxide, 5 wt. % in wate	r
	Self-doped, conducting polymer.	
	Conductivity	0.2-0.01 S/cm
	bp	C/760 mm Hg (lit.
	Solubility water	
	Extent of labeling ~100% de	gree of sulfonation
	Density	1 g/mL (lit.)
	$\begin{array}{c c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\$	

X 1-3 = SO3H or H

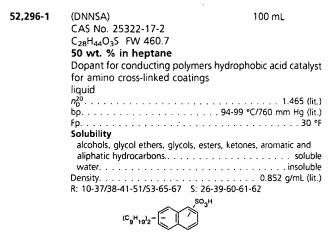
Polyanilines: Dopants

52,298-8

Dinonylnaphthalenedisulfonic acid solution

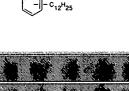
(DNI	NDSA)	100 mL
CAS	No. 60223-95-2	
55 v	vt. % in isobutan	iol
Dop	ant for conducting	polymers hydrophobic acid catalys
for a	mino cross-linked	coatings
liqui	d	-
$n_{\rm D}^{20}$.		1.476 (lit.
bp		101 °C/760 mm Hg (lit.
Fρ		
alco alip	hatic hydrocarbons	lycols, esters, ketones, aromatic andsolubleinsoluble
		0.98 g/mL (lit.
R: 10)-34 S: 16-26-36/37	/39-45
	_	(SO ₃ H) ₂
	(C ₉ H ₁₉) ₂ -	

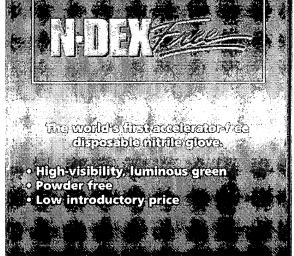
Dinonylnaphthalenesulfonic acid solution



Dodecylbenzenesulfonic acid solution

52,295-3	CAS No. 27176-87-0 70 wt. % in 2-propanol	500 mL
	Dopant for conducting polymers s amino cross-linked coatings liquid	strong acid catalyst for
	n _D ²⁰	82 °C/760 mm Hg (lit.)
	water, alcohols, glycol ethers, glycols and aliphatic hydrocarbons	soluble
	Density	0.992 g/mL (lit.)
	\$0 ₃ H	





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